

IN THE CLAIMS:

1. (Currently Amended) A coil component, comprising:

a coil section having a through hole, the coil section comprising a plurality of ring sections formed of a metallic flat plate disposed in a plane and connected to each other at ring connecting sections, the ring sections being bent at the ring connecting sections and placed one on top of another to form the coil section;

terminals connected to the coil section; and

a package member covering the coil section and having the terminals projecting therefrom,

wherein

each of the ring sections comprises an arc-shaped portion having a slit formed by cutting a part of the ring section,

the ring connecting sections are being formed at end sections of the arc-shaped portions of the ring sections where the ring sections are connected to each other, and

the terminals are being formed at end sections of the arc-shaped portions of the ring sections where the ring sections are not connected to each other,

Serial No.: 10/657,105

the plurality of ring sections being disposed in a plane  
and connected to each other through ring-connecting sections  
to be disposed in a shape of a triangle, and

a sum of one or two angles formed by center lines each  
connecting centers of the ring sections adjacent to each  
other, and angles each formed by the center line and an  
extension line extending from the center of the ring section  
toward the end section of the ring section is approximately  
180°, the end section being connected to a terminal.

2. (Cancelled)

3. (Currently Amended) The coil component according to  
claim 1, wherein each terminal is provided on an extension  
line extending from a the center of the ring section toward  
the end section formed of the ring section, the end section  
being provided with the terminal.

4. (Original) The coil component according to claim 1,  
wherein each of the ring connecting sections has a groove  
formed therein for bending.

5. (Currently Amended) The coil component according to claim 3 4, wherein the groove is formed in a direction perpendicular to a the center line connecting the centers of the ring sections adjacent to each other and connected by the ring connecting section.

6. (Currently Amended) The coil component according to claim 1, wherein a projection extending toward the slit is formed at each end section of the arc-shaped portion of the ring section where the ring sections are connected to each other, the end section being formed of the ring connecting section.

7. (Original) The coil component according to claim 1, wherein the ring sections have substantially equal outside diameters.

8. (Original) The coil component according to claim 1, wherein peripheral edge portions of the ring sections are chamfered.

9. (Original) The coil component according to claim 1, wherein each terminal provided at the end section of the arc-

Serial No.: 10/657,105

shaped portion of the ring section where the ring sections are not connected to each other has a step, and the step formed on one terminal and the step formed on the other terminal are arranged to be in such directions that the terminals approach each other when the ring sections are placed one on top of another in a same phase.

10. (Original) The coil component according to claim 1, wherein the ring section excluding the ring connecting section is provided with an insulating coating layer.

11. (Original) The coil component according to claim 1, wherein the plurality of ring sections are four ring sections, the four ring sections being disposed in half respectively at upper and lower positions in parallel to each other, a center line connecting centers of the upper and lower ring sections and a center line connecting centers of the left and right ring sections intersect each other at an angle of about  $60^\circ$ , and the upper and lower four ring sections are connected by the connecting sections.

12. (Previously Presented) The coil component according to claim 1, wherein a length of the ring connecting

Serial No.: 10/657,105

section formed at one end section of the arc-shaped portion of the ring section is greater than a length of the ring connecting section formed at the other end section.

13. (Original) The coil component according to claim 1, wherein the package member has an outside shape of a prism, each ring connecting section is disposed in a corner portion of the package member, and each of the terminals is disposed between the corner portions of the package member.

14. (Currently Amended) The coil component according to claim 1, wherein the plurality of ring sections formed of a metallic flat plate disposed in a plane, the ring connecting sections, and the terminals are formed by etching or die-cutting.

15. (Original) The coil component according to claim 1, wherein the package member is formed by: mixing a binder including thermosetting resin and magnetic powder in a non-heated state so that the thermosetting resin does not set completely; providing a compacted powder body with low hardness portions having such a hardness that the compacted powder body loses its shape; pressure-forming the compacted

Serial No.: 10/657,105

powder body in the non-heated state; re-pressure forming the compacted powder body so that the low hardness portions of the compacted powder body cover the coil section; and heating the re-pressure formed thermosetting resin to be completely set.

16. (Original) The coil component according to claim 15, wherein the compacted powder body is provided with a high hardness portion having such a hardness that the compacted powder body does not lose its shape in the re-pressure forming and the low hardness portion having such a hardness that the compacted powder body loses its shape in the re-pressure forming, and the high hardness portion of at least one compacted powder body in the package member supports one face of the coil section.

17. (Original) The coil component according to claim 1, wherein the package member is a magnetic core including magnetic powder and has an upper face portion corresponding to an upper portion of the coil section, a lower face portion corresponding to a lower portion of the coil section, and an intermediate portion corresponding to a height portion of the coil section, wherein a thickness of a skin encapsulating the coil section is smaller than a diameter of the through hole of

Serial No.: 10/657,105

the coil section, and a density of the upper face portion and a density of the lower face portion are higher than a density of the intermediate portion.

18. to 33. (Canceled)

34. (New) The coil component according to claim 1, wherein the ring connection section has a groove having a V-shaped section and the groove is formed in a shallow scraped recessed portion.